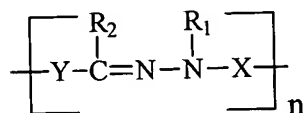


## ORGANOPHOTORECEPTOR WITH A HYDRAZONE POLYMER CHARGE TRANSPORT MATERIAL

### ABSTRACT

An organophotoreceptor comprises an electrically conductive substrate and  
5 photoconductive element on the electrically conductive substrate, the photoconductive  
element having

a) a charge transport material with the formula



where X is a linking group having the formula  $-(\text{CH}_2)_m-$ , branched or linear, where m is  
10 an integer between 0 and 20, inclusive, and one or more of the methylene groups is  
optionally replaced by O, S, C=O, O=S=O, a heterocyclic group, an aromatic group,  
urethane, urea, an ester group, a  $\text{NR}_3$  group, a  $\text{CHR}_4$  group, or a  $\text{CR}_5\text{R}_6$  group where  $\text{R}_3$ ,  
 $\text{R}_4$ ,  $\text{R}_5$ , and  $\text{R}_6$  are, independently, H, hydroxyl group, thiol group, an alkyl group, an  
alkaryl group, a heterocyclic group, or an aryl group;

15  $\text{R}_1$  and  $\text{R}_2$  are independently a hydrogen, a halogen, an alkyl group, an aryl group,  
an alkaryl group, an aromatic group or a heterocyclic group;

Y is an aromatic group; and

n is a distribution of integer values greater than 2; and

(b) a charge generating compound.

20 The charge transport material can be crosslinked with a polymer binder either  
directly or through a crosslinking agent.